

Stericycle

*Experts in Infection Control
and Healthcare Compliance Services*

Wade Van Zee
Area Manager Environment, Safety & Health

May 5, 2004

via UPS

Illinois Environmental Protection Agency
Bureau of Air
Compliance Section (MC 40)
P O Box 19276
Springfield, IL 62794-9276

Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, IL 62234

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section (MC 11)
P O Box 19506
Springfield, IL 62794-9506

USEPA (AR - 17)
Air & Radiation Division
77 West Jackson Boulevard
Chicago, IL 60604

Illinois Environmental Protection Agency
Division of Air Pollution Control
2125 South First Street
Champaign, IL 61820

RECEIVED

MAY 18 2004

AIR ENFORCEMENT BRANCH,
U.S. EPA, REGION 5

Re: Stericycle, Inc., I.D. No.: 039808AAB, Permit No.: 99110103 – Semi-annual Report

To Whom It May Concern

Stericycle, Inc (Stericycle) owns and operates two commercial medical waste incinerators located in Clinton, Illinois. Stericycle is subject to the recently promulgated Illinois regulations (35 IAC 229 – Hospital/Medical/Infectious Waste Incinerators) that have been developed to comply with the U.S. Environmental Protection Agency (EPA) Emission Guidelines for Existing Hospital, Medical and Infectious Waste Incinerators (40 CFR Part 60, Subpart Ce). In order to comply with the new HMIWI regulations, Stericycle performed an Annual Performance Test on August 6, 2003 and submitted the Annual Performance Test Report on September 26, 2003. This submittal is the fourth semi-annual report for the time period of September 16, 2003 to March 15, 2004. As identified in Condition 7113(d) of the facility's Title V Operating Permit, the first semi-annual report was submitted within 60 days of September 15, 2002. Subsequent semi-annual reports will be submitted within 60 days of March 15 and September 15 of each calendar year.

The following information is required to be submitted on a semi-annual basis pursuant to 40 CFR 60.58c(d) and the Title V Operating Permit 99110103, Condition 7113(c):

- i) The values for site-specific operating parameters established pursuant to 35 IAC 229.142
- ii) The highest maximum operating parameter and the lowest minimum operating parameter, if applicable, for each operating parameter, recorded for the calendar year being reported and for the calendar year preceding the year being reported.
- iii) Any information recorded pursuant to 35 IAC 229.182(a)(3) through (5) for the calendar year being reported and for the calendar year preceding the year being reported.
- iv) If no exceedances or malfunctions were recorded under 35 IAC 229.182(a)(3) through (6)(5) for the calendar year being reported, a statement that no exceedances occurred during the reporting period.
- v) Any use of the bypass stack, the duration of use, the reason for malfunction, and the corrective actions taken.

Provided below is the information necessary to satisfy these recordkeeping and reporting requirements:

- i) The values for site-specific operating parameters established pursuant to 35 IAC 229.142.

Summary of Site-Specific Operating Parameter Limits
Annual Performance Test (August 6, 2003)

Unit #1

| Operating Parameter | Initial Performance Test Value | Calculated Operating Parameter Limit |
|---------------------------------------|--------------------------------|--------------------------------------|
| Maximum Charge Rate | 1260.1 | 1386.1 lb /hr |
| Minimum Secondary Chamber Temperature | 2007.4 | 1806.7 ° F |
| Minimum Absorber pH | 5.6 | 5.04 pH |
| Minimum Venturi Pressure Drop | 40.45 | 36.41 in w.c |
| Minimum Venturi Recirculation Rate | 48.99 | 44.09 gpm |
| Maximum Flue Gas Temperature | 116.23 | 127.9 ° F |

Unit #2

| Operating Parameter | Initial Performance Test Value | Calculated Operating Parameter Limit |
|---------------------------------------|--------------------------------|--------------------------------------|
| Maximum Charge Rate | 1292.1 | 1421.3 lb /hr |
| Minimum Secondary Chamber Temperature | 2012.4 | 1811.2 ° F |
| Minimum Absorber pH | 5.18 | 4.7 pH |
| Minimum Venturi Pressure Drop | 42.84 | 38.6 in w.c |
| Minimum Venturi Recirculation Rate | 54.40 | 49.0 gpm |
| Maximum Flue Gas Temperature | 117.19 | 128.9 ° F |

- ii) The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter, recorded for the calendar year being reported and for the calendar year preceding the year being reported.*

The table provided below outlines the highest maximum and lowest minimum operating parameters for the HMIWI during normal operations for the current reporting period (September 16, 2003 – March 15, 2004). In addition, Periods of time outside of normal operations, i.e. startup, shutdown, malfunction and/or exceedances, are addressed in iii) below.

Highest Maximum and Lowest Minimum Operating Parameter Values

Current Reporting Period

Unit #1

September 16, 2003-March 15, 2004

| Operating Parameter | Calculated Operating Parameter Limit | Highest Maximum/Lowest Minimum Value |
|---------------------------------------|---|---|
| Maximum Charge Rate | 1386.1 lb /hr | 1380.6/0 |
| Minimum Secondary Chamber Temperature | 1806.7 ° F | 2274/1809.9 |
| Minimum Absorber pH | 5.04 pH | 9.3/5.043 |
| Minimum Venturi Pressure Drop | 36.41 in w.c. | 50/36.53 |
| Minimum Venturi Recirculation Rate | 44.09 gpm | 61.97/44.15 |
| Maximum Flue Gas Temperature | 127.9 ° F | 127.89/72.1 |

Unit #2

September 16, 2003-March 15, 2004

| Operating Parameter | Calculated Operating Parameter Limit | Highest Maximum/Lowest Minimum Value |
|---------------------------------------|---|---|
| Maximum Charge Rate | 1421.3 lb /hr | 1415.8/0 |
| Minimum Secondary Chamber Temperature | 1811.2 ° F | 2289.2/1812.2 |
| Minimum Absorber pH | 4.7 pH | 11/4.71 |
| Minimum Venturi Pressure Drop | 38.6 in w.c. | 49.99/38.61 |
| Minimum Venturi Recirculation Rate | 49.0 gpm | 69.18/49.0 |
| Maximum Flue Gas Temperature | 128.9 ° F | 128.5/67.7 |

Highest Maximum and Lowest Minimum Operating Parameter Values

Current Calendar Year

Unit #1

March 16, 2003-August 6, 2003

| Operating Parameter | Calculated Operating Parameter Limit | Highest Maximum/Lowest Minimum Value |
|---------------------------------------|---|---|
| Maximum Charge Rate | 1387.4 lb /hr | 1346.2/0 |
| Minimum Secondary Chamber Temperature | 1759.9 °F | 2257.8/1804.5 |
| Minimum Absorber pH | 6.42 pH | 9.6/4.3 |
| Minimum Venturi Pressure Drop | 36.65 in w.c. | 48.08/36.654 |
| Minimum Venturi Recirculation Rate | 37.80 gpm | 79.82/37.81 |
| Maximum Flue Gas Temperature | 127.9 °F | 127.85/81.5 |

Unit #1

-August 6, 2003-March 15, 2004

| Operating Parameter | Calculated Operating Parameter Limit | Highest Maximum/Lowest Minimum Value |
|---------------------------------------|---|---|
| Maximum Charge Rate | 1386.1 lb /hr | 1380.6/0 |
| Minimum Secondary Chamber Temperature | 1806.7 °F | 2250.1/1806.9 |
| Minimum Absorber pH | 5.04 pH | 9.3/5.043 |
| Minimum Venturi Pressure Drop | 36.41 in w.c. | 50.36/36.53 |
| Minimum Venturi Recirculation Rate | 44.09 gpm | 61.97/44.15 |
| Maximum Flue Gas Temperature | 127.9 °F | 127.89/72.1 |

Unit #2

March 16, 2003-August 6, 2003

| Operating Parameter | Calculated Operating Parameter Limit | Highest Maximum/Lowest Minimum Value |
|---------------------------------------|---|---|
| Maximum Charge Rate | 1518.1 lb /hr | 1459.2/0 |
| Minimum Secondary Chamber Temperature | 1741.5 °F | 2272.1/1831.8 |
| Minimum Absorber pH | 6.09 pH | 11.2/6.1 |
| Minimum Venturi Pressure Drop | 37.24 in w.c. | 51.5/37.66 |
| Minimum Venturi Recirculation Rate | 36.90 gpm | 78.34/37.27 |
| Maximum Flue Gas Temperature | 128.9 °F | 128.89/80.5 |

Unit #2

August 6, 2003-March 15, 2004

| Operating Parameter | Calculated Operating Parameter Limit | Highest Maximum/Lowest Minimum Value |
|---------------------------------------|--------------------------------------|--------------------------------------|
| Maximum Charge Rate | 1421.3 lb./hr | 1417.4/0 |
| Minimum Secondary Chamber Temperature | 1811.2 °F | 2289.2/1812.2 |
| Minimum Absorber pH | 4.7 pH | 11 1/4 71 |
| Minimum Venturi Pressure Drop | 38.6 in w.c. | 51.06/38.61 |
| Minimum Venturi Recirculation Rate | 49.0 gpm | 69.18/49.0 |
| Maximum Flue Gas Temperature | 128.9 °F | 128.7/67.7 |

Highest Maximum and Lowest Minimum Operating Parameter Values

Previous Calendar Year

Unit #1

June 28, 2002-March 15, 2003

Initial Stack Test June 27, 2002

| Operating Parameter | Calculated Operating Parameter Limit | Highest Maximum/Lowest Minimum Value |
|---------------------------------------|--------------------------------------|--------------------------------------|
| Maximum Charge Rate | 1387.4 lb./hr | 1387.3/0 |
| Minimum Secondary Chamber Temperature | 1759.9 °F | 2283/1774 |
| Minimum Absorber pH | 6.42 pH | 10 4/6 421 |
| Minimum Venturi Pressure Drop | 36.65 in w.c. | 50/36.66 |
| Minimum Venturi Recirculation Rate | 37.80 gpm | 69.13/37.85 |
| Maximum Flue Gas Temperature | 127.9 °F | 127.8/71.5 |

Unit #2

June 28, 2002-March 15, 2003

Initial Stack Test June 27, 2002

| Operating Parameter | Calculated Operating Parameter Limit | Highest Maximum/Lowest Minimum Value |
|---------------------------------------|--------------------------------------|--------------------------------------|
| Maximum Charge Rate | 1518.1 lb./hr | 1458.5/0 |
| Minimum Secondary Chamber Temperature | 1741.5 °F | 2267.1/1777.5 |
| Minimum Absorber pH | 6.09 pH | 10/6.1 |
| Minimum Venturi Pressure Drop | 37.24 in w.c. | 48.64/37.41 |
| Minimum Venturi Recirculation Rate | 36.90 gpm | 71.03/36.96 |
| Maximum Flue Gas Temperature | 128.9 °F | 128.8/71.5 |

- iii) Any information recorded pursuant to 35 IAC 229.182(a)(3) through (5) for the calendar year being reported and for the calendar year preceding the year being reported.

Current calendar year and the preceding calendar year information is attached to the tables referenced in (a)(4) and (a)(5)

- (a)3 Identification of any calendar days for which data on emission rates or operating parameters specified under subsection (a)(2) of this Section have not been obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining data, and a description of the corrective actions taken.

No exceedances occurred during the time period of September 16, 2003 to March 15, 2004. Stericycle utilizes a data acquisition and handling system that is integrated into the waste feed system that includes waste feed lockouts. Consequently, Stericycle can not charge HMIWI unless the system is operating and parameter requirements are satisfied. The data acquisition system consists of several process control systems.

- (a)(4) Identification of any malfunctions, including the calendar date, the time and duration, and a description of the malfunction and the corrective action taken to remedy it.

Stericycle has included a summary of malfunctions associated with the HMIWI in Table A-1 and A-2. Pursuant to §60.56c(d)(2) and Condition 718 (f) of the Title V Operating Permit, the applicable maximum and minimum operating parameter limits for each HMIWI apply at all times except during periods of startup, shutdown, and malfunction, provided that no hospital waste or medical/infectious waste is charged during the event. Consequently, there are no excess emissions during these events. In addition, "shutdown" for continuous HMIWI is defined as "no less than 2 hours after the last charge to the incinerator". Thus, for malfunctions that cause an automatic waste feed lockout, the duration of the malfunction is limited to 2 hours and then the unit is considered to be shutdown.

Stericycle has completed all information for malfunctions that occurred during the reporting period of September 16, 2003 to March 15, 2004 in Tables A-1 and A-2 for Units 1 and 2 respectively.

- (a)(5) Identification of calendar days for which data on emission rates or operating parameters specified under subsection (a)(2) of this Section exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of the corrective actions taken.

This information is summarized in Tables A-3 and A-4

- iv) *If no exceedances or malfunctions were recorded under 35 IAC 229.182(a)(3) through (a)(5) for the calendar year being reported, a statement that no exceedances occurred during the reporting period.*

Stericycle has provided the information required pursuant to 35 IAC 229.182(a)(3) through (a)(5) above

- v) *Any use of the bypass stack, the duration of use, the reason for malfunction, and the corrective actions taken.*

Stericycle has included bypass stack events with the malfunctions in item iii) above

Also, included is Form 400-CAAPP to show an original signature of our responsible official. If you should have any question please contact me at (217) 935-4700

Sincerely,


Wade Van Zee
Area Manager Environment, Safety & Health



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL -- PERMIT SECTION
P O BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

FOR APPLICANT'S USE

Revision # _____
Date ____ / ____ / ____
Page ____ of ____
Source Designation _____

| | | |
|--|---------------------|--|
| COMPLIANCE AND GENERAL REPORTING FORM | FOR AGENCY USE ONLY | |
| | ID NUMBER | |
| | PERMIT # | |
| | DATE | |

THIS FORM IS USED FOR EITHER OF THE FOLLOWING

- TO REPORT AND CERTIFY COMPLIANCE OF AN ENTIRE SOURCE OR SPECIFIC ITEMS OF EQUIPMENT WITH ALL APPLICABLE REQUIREMENTS DURING A REPORTING PERIOD OR
- TO IDENTIFY AND ENSURE PROPER PROCESSING OF A SUBMITTED REPORT THIS FORM SHOULD BE USED AS THE COVER SHEET OF THE SUBMITTED REPORT

| | | |
|---|-------------------------------|-----------|
| SOURCE INFORMATION | | |
| 1) SOURCE NAME Stericycle, Inc. | | |
| 2) DATE FORM PREPARED 05/05/04 | 3) SOURCE ID NO (IF KNOWN) | 039808AAb |

| | | |
|--|--|--|
| GENERAL INFORMATION | | |
| 4) INDICATE FOR WHICH OF THE FOLLOWING THIS FORM IS BEING COMPLETED | | |
| <input type="checkbox"/> TO REPORT AND CERTIFY COMPLIANCE OF THE SOURCE OR SPECIFIC ITEMS OF EQUIPMENT WITH ALL APPLICABLE REQUIREMENTS | | |
| <input type="checkbox"/> TO IDENTIFY AND ENSURE PROPER PROCESSING OF A SUBMITTED REPORT | | |
| 5) PERIOD COVERED BY THIS REPORT FROM <u>09</u> / <u>16</u> / <u>03</u> TO <u>03</u> / <u>15</u> / <u>04</u> | | |
| 6) NAME AND PHONE NUMBER OF PERSON TO CONTACT FOR QUESTIONS REGARDING THIS REPORT NAME <u>Wade Van Zee</u> TITLE <u>Area Manager Environment, Safety & Health</u> PHONE# <u>(217) 935-4700</u> EXT _____ | | |

THIS AGENCY IS AUTHORIZED TO REQUIRE THIS INFORMATION UNDER ILLINOIS REVISED STATUTES 1991, AS AMENDED 1992 CHAPTER 111 1/2 PAR 1039.5. DISCLOSURE OF THIS INFORMATION IS REQUIRED UNDER THAT SECTION FAILURE TO DO SO MAY PREVENT THIS FORM FROM BEING PROCESSED AND COULD RESULT IN THE APPLICATION BEING DENIED THIS FORM HAS BEEN APPROVED BY THE FORMS MANAGEMENT CENTER

FOR APPLICANT'S USE

APPLICATION PAGE

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400-CAAPP

COMPLIANCE OF SOURCE OR EQUIPMENT DURING REPORTING PERIOD

- COMPLETE ITEM 7 BELOW IF THIS FORM IS BEING USED TO REPORT AND CERTIFY COMPLIANCE OF THE ENTIRE SOURCE
- COMPLETE ITEM 8 BELOW IF THIS FORM IS BEING USED TO REPORT AND CERTIFY COMPLIANCE OF SPECIFIC ITEMS OF EQUIPMENT ONLY

7) WAS THE SOURCE IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS FOR THE YES NO
ENTIRE REPORTING PERIOD?

IF YES, THEN THE "REPORT INFORMATION" SECTION ON PAGE 3 OF THIS FORM DOES NOT NEED TO BE COMPLETED

IF NO THEN COMPLETE AND SUBMIT FORM CAAPP-405 -"EXCESS EMISSIONS, MONITORING EQUIPMENT DOWNTIME, AND MISCELLANEOUS REPORTING FORM"

8a) LIST THE EMISSION UNIT(S) AND CONTROL EQUIPMENT FOR WHICH THIS FORM IS BEING COMPLETED TO REPORT AND CERTIFY COMPLIANCE WITH (IF ADDITIONAL SPACE IS NEEDED FOR ITEM 10, ATTACH AND LABEL AS EXHIBIT 400-A)

Certification of Responsible Official

b) IDENTIFY THE APPLICABLE REQUIREMENT(S) FOR WHICH THIS FORM IS BEING USED TO REPORT AND CERTIFY COMPLIANCE WITH

CAAPP Permit Condition 9.9

c) IDENTIFY THE APPLICABLE REQUIREMENT(S) WHICH REQUIRE THAT THIS REPORT OR CERTIFICATION BE SUBMITTED

CAAPP Permit Condition 9.9

APPLICATION PAGE

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d) WERE THE ABOVE REFERENCED ITEMS IN 8(a) IN COMPLIANCE WITH ALL
APPLICABLE REQUIREMENTS FOR THE ENTIRE REPORTING PERIOD?

YES

NO

IF YES, THEN THE "REPORT INFORMATION" SECTION ON PAGE 3 OF THIS FORM DOES NOT NEED TO BE
COMPLETED

IF NO, THEN COMPLETE AND SUBMIT FORM CAAPP-405 - "EXCESS EMISSIONS MONITORING EQUIPMENT
DOWNTIME AND MISCELLANEOUS REPORTING FORM"

REPORT INFORMATION

9) TITLE OF REPORT BEING SUBMITTED

10) IDENTIFY THE APPLICABLE REQUIREMENT(S) WHICH REQUIRES THIS REPORT (IF APPLICABLE)

11) BRIEFLY EXPLAIN WHAT THIS REPORT COVERS

12) ATTACH THE REPORT TO THIS FORM

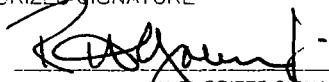
SIGNATURE BLOCK

NOTE THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION
WILL BE RETURNED AS INCOMPLETE.

13) I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE
INQUIRY THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND
COMPLETE.

AUTHORIZED SIGNATURE

BY



AUTHORIZED SIGNATURE

R.H. Gabey Jr.

TYPED OR PRINTED NAME OF SIGNATORY

District Manager

TITLE OF SIGNATORY

05 / 11 , 04

DATE

APPLICATION PAGE

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400-CAAPP

Table A-1
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Malfunction Events

TOTAL MONTHLY BYPASS EVENT SPREADSHEET

| | |
|-------------------------|---------|
| TOTAL BYPASS HRS YTD | 8 11 |
| TOTAL OPERATING HRS YTD | 3657 00 |

September 16, 2003---March 15, 2004

SEPTEMBER

TOTAL BYPASS HRS 180

TOTAL OP HRS FOR MONTH 609 00

% BYPASS FOR MONTH 0 30

OCTOBER

| | | | | | | | |
|-------------------------|--|--|------|------|--|--|--|
| | | | 0.00 | 0.00 | | | |
| | | | 0.00 | 0.00 | | | |
| | | | 0.00 | 0.00 | | | |
| | | | 0.00 | 0.00 | | | |
| TOTAL BYPASS HRS | | | 0.00 | | | | |

TOTAL BYPASS HRS 0 00

TOTAL OP HRS FOR MONTI 609.00

% BYPASS FOR MONTH 0 00

NOVEMBER

TOTAL BYPASS HRS 0 00

TOTAL OP HRS FOR MONTH 471.00

% BYPASS FOR MONTH

DECEMBER

TOTAL OP HRS FOR MONTI 702 00
% BYPASS FOR MONTH 0 31

JANUARY

TOTAL BYPASS HRS 0 03

TOTAL OP HRS FOR MONTH 281.00

% BYPASS FOR MONTH 001

FEBRUARY

TOTAL BYPASS HRS 200

TOTAL OPERATING MONTLH 24100

% BYPASS FOR MONTH

0 82

MARCH

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|---|--------------------------|------|---|
| 3/3/04 | 21 00 | 21 29 | 0 29 | 0 48 | Loss of electrical power from utility supplier | malfunction | ID-1 | Contact utility supplier |
| 3/19/04 | 1 35 | 2 36 | 1 01 | 1 02 | Wires to limit switch for feed hopper burnt due to fire in charge ram | malfunction | ID-2 | Replaced wires |
| 3/29/04 | 6 00 | 6 36 | 0 36 | 0 60 | Stack open due to a PLC fault | malfunction | ID-4 | Reset PLC for correct time, Programmers to correct with error box instead of stack open |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 2 10

TOTAL OP HRS FOR MONTI 741 00

% BYPASS FOR MONTI 0 28



Illinois Environmental Protection Agency

2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROLFraud Operations SectionMALFUNCTION NOTIFICATIONDate Received: March 29, 2004 Region: 3

Time Received: _____ Received By: _____

IEPA/DAPC Personnel Receiving: _____ Phone: _____

IEPA/DAPC Personnel Receiving: Mr. Stortzum Wire: _____Company Name: BFI Medical Waste, Inc. I.D.: 039803AABCompany Representative: Robert SarverPermit Name: Incinerator #1 Permit #: 99110103Date/Time Malfunction Began: 3/29/04-6:00am Source #: _____Date/Time Malfunction Ended: 3/29/04 - 6:36amDescription of Malfunction: The emergency dump stack opened as the result of a plc fault. (Found a negative variable in the ram forward timer-reset for the correct time) All charging to the unit stopped at this time.Corrective Action: Maintenance reset for the correct time; restarted the unit-closed the stack cap and verified all systems for normal operation. (Will try to get programmers to bring up an error box instead of allowing plc to crash. Charging to the unit resumed as normal.Letter to Follow? Yes XXX No Estimated EmissionsActual ('³/hr)cc: DAPC Central File Allowable ('³/hr)Excess ('³/hr)



Illinois Environmental Protection Agency 2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Field Operations Section

MALFUNCTION NOTIFICATION

Date Received: 3/19/04 Region: 3

Time Received: _____ Received By: _____

IEPA/DAPC Personnel Receiving: Mr. Stortzum Phone: _____

IEPA/DAPC Personnel Receiving: Mr. Stortzum Where: _____

IEPA/DAPC Personnel Receiving: Mr. Stortzum Other: Fax

Company Name: BFI Medical Waste, Inc. I.D.: 039308AAB

Company Representative: Robert Sarver

Permit Name: Incinerator #1 Permit #: 99110103

Date/Time Malfunction Began: 3/19/04 - 1:35am Source #: _____

Date/Time Malfunction Ended: 3/19/04 - 2:36am

Description of Malfunction: The emergency dump stack opened due to wires to limit switch for feed hopper burnt up due to fire on charge ram, which melted flex conduit and shorted out wiring.

Corrective Action: Maintenance replaced the burnt up wires, the dump stack closed, and charging to the unit resumed as normal.

Letter to Follow? Yes XXX No Estimated Emissions.

Actual lbs/hr

cc DAPC Central File Allowable lbs/hr

Excess lbs/hr



Illinois Environmental Protection Agency

2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Field Operations Section

MALFUNCTION NOTIFICATION

Date Received: March 4, 2004 Region: 3

Time Received: _____ Received By: _____

Phone: _____

Wire: _____

Other: Fax

IEPA/DAPC Personnel Receiving: Mr. Stortzum

Company Name: BFI Medical Waste, Inc. I.D.: 039808AAB

Company Representative: Robert Sarver

Permit Name: Incinerator #1 Permit #: 99110103

Date/Time Malfunction Began: 3/3/04 - 9:00pm Source #: _____

Date/Time Malfunction Ended: 3/3/04 - 9:29pm

Description of Malfunction: The emergency dump stack opened as the result of the loss of electrical power from the utility supplier.

All systems were rendered inoperative, emergency dump stack was opened. All charging to the unit stopped at this time.

Corrective Action: Maintenance crew determined the unit had a

power failure, based on the dips in the chart recorders. Maintenance crew doublechecked all electrical systems, reset the unit to operational status and verified normal operation. Charging to the unit resumed.

Letter to Follow? Yes XXX No Estimated Emissions

Actual lbs/hr

cc: DAPC Control File Allowable lbs/hr

Excess lbs/hr



Illinois Environmental Protection Agency

2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Field Operations Section

MALFUNCTION NOTIFICATION

Date Received: March 1, 2004 Region: 3
Received By:

Time Received: _____ Phone: _____
Wire: _____ Other: _____ Fax: _____

IEPA/DAPC Personnel Receiving: Mr. Stortzum _____

Company Name: BFI Medical Waste, Inc. I.O.: 039808AAB

Company Representative: Robert Sarver

Permit Name: Incinerator #1 Permit #: 99110103

Date/Time Malfunction Began: 2/28/04 - 5:10am Source #: _____

Date/Time Malfunction Ended: 2/28/04 - 7:10am

Description of Malfunction: The emergency dump stack opened as the result of a wire shorted out at the lid closed limit switch, tripping the 110v power to the control panel, taking down the ID fan. The bypass stack was opened to protect employees and equipment. All charging to the unit stopped at this time.

Corrective Action: Maintenance crew located wire that was shorted out ran new wire to the limit switch. Unit was brought back on-line all systems were checked for normal operation and charging to the unit resumed.

Letter to Follow? Yes No Estimated Emissions:

Actual 115 lbs

cc DAPC Central File Allowable 115 lbs
Excess 115 lbs



Illinois Environmental Protection Agency 2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Field Operations Section

MALFUNCTION NOTIFICATION

Date Received: January 12, 2004 Region: 3
Received By:

Time Received: _____ Phone: _____
IEPA/DAPC Personnel Receiving: Mr. Stortzum Wire: _____
Other: FAX

Company Name: BFI Medical Waste, Inc. I.D.: 039808AAB

Company Representative: Robert Sarver

Permit Name: Incinerator #1 Permit #: 99110103

Date/Time Malfunction Began: 1/9/04 - 11:57am Source #: _____

Date/Time Malfunction Ended: 1/9/04 - 11:59am

Description of Malfunction: The emergency dump stack opened due to a shorted wire to the limit switch for the guillotine door. All charging to the unit stopped at this time.

Corrective Action: The maintenance crew located the short in the wire and repaired. The maintenance crew will reoute the conduit for the limit switch upon next shut down. All systems were restarted and checked for normal operation. Charging to the unit resumed.

Letter to Follow? Yes XXX No Estimated Emissions:

Actual (lb/hr)

cc DAPC Central File _____ Allowable (lb/hr)

Excess (lb/hr)



Illinois Environmental Protection Agency 2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Field Operations Section

MALFUNCTION NOTIFICATION

Date Received: December 16, 2003 Region: 3
Received By:

Time Received: _____
Phone: _____

IEPA/DAPC Personnel Receiving: Mr. Stortzum Wire: _____
Other: FAX

Company Name: BFI Medical Waste, Inc. I.D.: 039808AAB

Company Representative: Robert Sacver

Permit Name: Incinerator #1 Permit #: 99110103

Date/Time Malfunction Began: 12/15/03 - 2:16am Source #: _____

Date/Time Malfunction Ended: 12/15/03 - 3:57am

Description of Malfunction: The emergency dump stack opened as the result
of the VFD unit overheating. All charging to the unit stopped at
this time. The overheating of the VFD unit was the result of the
internal fan not functioning properly.

Corrective Action Maintenance crew diagnosed the problem and replaced
the internal fan on the VFD unit. All systems were restarted and
checked for normal operation. Charging to the unit resumed.

Letter to Follow? Yes No Estimated Emissions:

Actual: 15,000

cc: DAPC Central File Allowable: 10,000

Excess: 5,000



Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Field Operations Section

MALFUNCTION NOTIFICATION

Date Received: December 16, 2003 Region: 3
Received By:

Time Received: _____ Phone: _____
IEPA/DAPC Personnel Receiving: Mr. Stortzum Wire: _____

IEPA/DAPC Personnel Receiving: Mr. Stortzum Other: FAX
Company Name: BFI Medical Waste, Inc. I.D.: 039808AAB

Company Representative: Robert Sarver

Permit Name: Incinerator #1 Permit #: 99110103

Date/Time Malfunction Began: 12/15/03 - 1:30am Source #: _____

Date/Time Malfunction Ended: 12/15/03 - 2:00am

Description of Malfunction: The emergency dump stack opened as the result of the VFD overheating. All charging to the unit stopped at this time to protect the equipment and personnel.

Corrective Action: Maintenance checked the VFD and placed a box fan on unit to stop the unit from overheating. Stack cap was closed and all systems were checked and verified for normal operation.

Charging to the unit resumed as normal.

Letter to Follow? Yes XXX No Estimated Emissions:

Actual (lb/hr)

cc. DAPC Central File Allowable (lb/hr)

Excess lb/hr



Illinois Environmental Protection Agency • 2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Field Operations Section

MALFUNCTION NOTIFICATION

Date Received: September 5, 2003 Region: 3

Time Received: _____ Received By: _____

IEPA/DAPC Personnel Receiving: Mr. Stoeckzum Phone: _____

IEPA/DAPC Personnel Receiving: Mr. Stoeckzum Wire: _____

IEPA/DAPC Personnel Receiving: Mr. Stoeckzum Other: FAX

Company Name: BFI Medical Waste, Inc. I.D.: 039808AAB

Company Representative: Robert Sarver

Permit Name: Incinerator #1 Permit #: 99110103

Date/Time Malfunction Began: 9/4/03 - 7:14pm Source #: _____

Date/Time Malfunction Ended: 9/4/03 - 9:02pm

Description of Malfunction: The emergency dump stack opened due to high scrubber temperature which was caused by a plugged water supply to the scrubber system. All charging to the unit stopped at this time.

Corrective Action: Maintenance crew replaced a bad valve on the quench system. Unit was brought back on line and all systems were checked for normal operation. Charging to the unit resumed.

Letter to Follow? Yes XXX No Estimated Emissions:

Actual /¹⁵/hr,

cc: DAPC Central File Allowable /¹⁵/hr

Excess /¹⁵/hr

Table A-2
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Malfunction Events

TOTAL MONTHLY BYPASS EVENT SPREADSHEET

| | |
|-------------------------|---------|
| TOTAL BYPASS HRS YTD | 9 96 |
| TOTAL OPERATING HRS YTD | 2810 00 |

ALL TIMES MUST BE MILITARY TOTAL % 0 35
MAXIMUM BYPASS EVENT 2 HOURS

September 16, 2003---March 15, 2004

SEPTEMBER

TOTAL BYPASS HRS 345

TOTAL OP HRS FOR MONTH 720.00

% BYPASS FOR MONTH 1 0.48

OCTOBER

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|----------|------------|----------|----------|-----------|--------------------------------|-------------------------|------|--------------------------|
| 10/30/03 | 15:15 | 15:27 | 00:02 | 0.01 | It pressure switch tripped | malfunction | ID-7 | Reset switch |
| 10/4/03 | 21:29 | 21:38 | 00:09 | 0.15 | It fan pressure switch tripped | malfunction | ID-7 | Adjusted pressure switch |

TOTAL BYPASS HRS 0 63

TOTAL OP HRS FOR MONTI 639 00

% BYPASS FOR MONTH

NOVEMBER

TOTAL BYPASS HRS 2 95

TOTAL OP HRS FOR MONTI 476.00

% BYPASS FOR MONTH 0.62

DECEMBER

| REMARKS | DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|-------------|------|------------|----------|----------|-----------|--------------------------|--------------------------|------|-------------------|
| | | 0 00 | 0 00 | 0 00 | 0 00 | | | | |
| Did not run | | | | | 0 00 | 0 00 | | | |
| | | | | | 0 00 | 0 00 | | | |
| | | | | | 0 00 | 0 00 | | | |

JANUARY

| DATE | TOTAL BYPASS HRS | TOTAL OP HRS FOR MONTH | % BYPASS FOR MONTH | FEBRUARY |
|------|--------------------------------------|------------------------|--------------------|------------|
| | EMISSION OR BYPASS EVENT DESCRIPTION | TOTAL HRS | BYPASS DURATION | START TIME |
| None | | 466.00 | 0.63 | |
| | CORRECTIVE ACTION | 0.00 | 0.00 | |
| | CODE | 0.00 | 0.00 | |
| | MALFUNCTION | 0.00 | 0.00 | |
| | TOTAL DURATION | 0.00 | 0.00 | |
| | EMISSION OR BYPASS | 0.00 | 0.00 | |

FEBRUARY

| | | | | | | | | |
|--|--|--|------|------|--|--|--|--|
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 0 00

TOTAL OP HRS FOR MONTI 509 00

% BYPASS FOR MONTH 0 00

MARCH

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|-----------------|------------|----------|----------|-----------|--------------------------|--------------------------|------|-------------------|
| | 0 00 | 0 00 | 0 00 | 0 00 | | | | |
| | | | | 0 00 | 0 00 | | | |
| Did not operate | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |

TOTAL BYPASS HRS 0 00

TOTAL OP HRS FOR MONTI 0 00

% BYPASS FOR MONTH 0 00



Illinois Environmental Protection Agency

2200 Churchill Read, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROLField Operations SectionMALFUNCTION NOTIFICATION

Date Received: January 26, 2004 Region: 3
Time Received: _____ Received By:
IEPA/DAPC Personnel Receiving: Mr. Stortzum Phone: _____
Wire: _____ Other: Fax
Company Name: BFI Medical Waste, Inc. I.D.: 039808AAB
Company Representative: Robert Sarver
Permit Name: Incinerator #2 Permit #: 99110103
Date/Time Malfunction Began: 1/25/04 - 8:21am Source #: _____
Date/Time Malfunction Ended: 1/25/04 - 9:20am
Description of Malfunction: The emergency dump stack opened as the result of high scrubber temperatures which caused by a broken water fitting consequently causing the quench basin to loose water level. All charging to the unit stopped at this time.
Corrective Action: Maintenance crew repaired hose fitting, refilled the quench tank and reset unit verifying that all systems were of normal operation. Charging resumed to the unit.

Letter to Follow? Yes No Estimated Emissions

Actual (lb/hr)

cc DAPC Central File Allowable (lb/hr)
Excess (lb/hr)



Illinois Environmental Protection Agency · 2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Field Operations Section

MALFUNCTION NOTIFICATION

Date Received: January 19, 2004 Region: 3

Time Received: _____ Received By: _____

IEPA/DAPC Personnel Receiving: Mr. Stortzum Phone: _____

IEPA/DAPC Personnel Receiving: Mr. Stortzum Wire: _____

IEPA/DAPC Personnel Receiving: Mr. Stortzum Other: FAX

Company Name: BFI Medical Waste, Inc. I.D.: 039808AAB

Company Representative: Robert Sacver

Permit Name: Incinerator #2 Permit #: 99110103

Date/Time Malfunction Began: 1/19/04 - 4:17am Source #: _____

Date/Time Malfunction Ended: 1/19/04 - 6:14am

Description of Malfunction: The emergency dump stack opened as the result of a shorted wire supplying the power to the ID fan.

All systems were shutdown to protect equipment and personnel.

The shorted wire was caused by a small fire by the lower pusher melting the wire in two. All charging to the unit stopped.

Corrective Action: Maintenance crew replaced and rewired the ID fan. Systems were restarted and verified for normal operation.

Charging to the unit resumed.

Letter to Follow? Yes XXX No Estimated Emissions:

Actual (lb/hr)

cc: DAPC Central File Allowable (lb/hr)

Excess (lb/hr)

DIVISION OF AIR POLLUTION CONTROLField Operations SectionMALFUNCTION NOTIFICATIONDate Received: November 20, 2003 Region: 3

Time Received: _____ Received By: _____

IEPA/DAPC Personnel Receiving: Mr. Stortzum Phone: _____

IEPA/DAPC Personnel Receiving: _____ Wire: _____

Company Name: BFI Medical Waste, Inc. I.D.: 039808AABCompany Representative: Robert ServesPermit Name: Incinerator #2 Permit #: 99110103Date/Time Malfunction Began: 11/19/03 - 4:38am Source #: _____Date/Time Malfunction Ended: 11/19/03 - 6:38amDescription of Malfunction: The emergency dump stack opened due to the venturi fiberglass plate coming loose, blocking the vacuum/vent channel, which caused a loss of draft in the system.All charging to the unit stopped at this time.Corrective Action: Maintenance crew located the fiberglass plate and reattached to the venturi. All systems were checked for normal operation after the stack cap was closed. Charging to the unit resumed.Letter to Follow? Yes XX No Estimated Emissions.Actual lb/hrcc: DAPC Central File Allowable lb/hrExcess lb/hr



Illinois Environmental Protection Agency

2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Field Operations Section

MALFUNCTION NOTIFICATION

Date Received: November 18, 2003 Region: 3

Time Received: _____ Received By: _____

IEPA/DAPC Personnel Receiving: Mr. Stenzel Phone: _____

IEPA/DAPC Personnel Receiving: Mr. Stenzel Wire: _____

IEPA/DAPC Personnel Receiving: Mr. Stenzel Other: Fax

Company Name: BFI Medical Waste, Inc. I.D.: 039808AAB

Company Representative: Robert Saver

Permit Name: Incinerator #2 Permit #: 99110103

Date/Time Malfunction Began: 11/17/03 - 12:18pm Source #: _____

Date/Time Malfunction Ended: 11/17/03 - 1:05pm

Description of Malfunction: The emergency dump stack opened as the result of the operator setpoint in Allen/Bradley programming set to "0" inch of quench tank water level (Normal 50-60 Inch level), which caused the level in the quench tank to drain empty.

All charging to the unit stopped at this time.

Corrective Action: Followed SSM plan for high scrubber temperature for emission minimized. Opened cap and verified all systems for normal operation. Charging resumed as normal.

Letter to Follow? Yes AKH RC Estimated Emissions

Actual lbs/hr

cc: DAPC Central File allowable lbs/hr

Excess lbs/hr



Illinois Environmental Protection Agency 2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Field Operations Section

MALFUNCTION NOTIFICATION

Date Received: November 13, 2003 Region: 3

Received By:

Time Received: _____ Phone: _____

IEPA/DAPC Personnel Receiving: Mr. Stortzum Wire: _____
Other: FAX

Company Name: BFI Medical Waste, Inc. I.D.: 039808AAB

Company Representative: Roccert Sacver

Permit Name: Incinerator #2 Permit #: 99110103

Date/Time Malfunction Began: 11/17/03 -2:52am Source #: _____

Date/Time Malfunction Ended: 11/17/03 -3:16am

Description of Malfunction: The emergency dump stack opened due to high quench temperature and low quench level. All charging to the unit stopped at this time.

Corrective Action: Maintenance crew filled quench with fresh water and changed quench baskets. Cap was closed and system was checked and verified for normal operation. Charging to the unit resumed as normal.

Letter to Follow: /es A/E No Estimated Emissions

Actual Tc/hr

cc DAPC Central File allowable Tc/hr

Excess Tc/hr



Illinois Environmental Protection Agency 2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Field Operations Section

MALFUNCTION NOTIFICATION

Date Received November 18, 2003 Region: 3
Received By:

Time Received: _____ Phone: _____

IEPA/CAPC Personnel Receiving: Mr. Stortzam Wire: _____
Other: FAX

Company Name: BFI Medical Waste, Inc. I.D.: 039808AAB

Company Representative: Robert Sarver

Permit Name: Incinerator #2 Permit #: 99110103

Date/Time Malfunction Began: 11/17/03 - 2:26am Source #: _____

Date/Time Malfunction Ended: 11/17/03 - 2:42am

Description of Malfunction: The emergency dump stack opened due to high quench temperature and low quench level. All charging to the unit stopped at this time.

Corrective Action: Maintenance crew filled quench with fresh water and changed quench baskets. Cap was closed and system was checked and verified for normal operation. Charging to the unit resumed as usual.

Letter to Follow? Yes XXX No Estimated Emissions:
Actual lbs/hr.
cc DAPC Central File Allowable lbs/hr.
Excess lbs/hr.



Illinois Environmental Protection Agency

2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Flight Operations Section

MALFUNCTION NOTIFICATION

Date Received: October 6, 2003 Region: 3

Region : 3

Time Received: _____ Date: _____ Phone: _____

Phone:

Wire : _____

Wire:

IEPA/DAPC Personnel Receiving: _____ Other: _____

Other:

Company Name: BFI Medical Waste, Inc. I.D.: 039808AAB

Company Representative: Robert Sarver

Permit Name: Incinerator #2 Permit #: 99110103

Date/Time Malfunction Began: 10/04/03 - 9:51pm Source #.

Date/Time Malfunction Ended. 10/04/03 - 10:18pm

Description of Malfunction. The emergency dump stack opened due to the id pressure switch tripping. All charging to the unit stopped at this time.

Corrective Action: MAINTENANCE CREW ADJUSTED THE SETPOINT FOR THE PRESSURE SWITCH AND RESTARTED THE SCRUBBER SYSTEM, VERIFYING FOR NORMAL OPERATION. Charging to the unit resumed.

Letter to Fellow? Yes No Estimated Emissions

Actual Trip

Wysokość i szerokość kąta swobodnego wraz z jego skutkiem na zmiany w strukturze i funkcjonalności organizmu.

www.wadie.com

Excess 7.2, 15



Illinois Environmental Protection Agency

2200 Churchill Road Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROLField Operations SectionMALFUNCTION NOTIFICATIONDate Received October 6, 2003Region 3

Received By:

Phone:

Wire:

Other: FAX

Time Received:

IEPA/DAPC Personnel Receiving: Mr. StoeckzumCompany Name: BFI Medical Waste, Inc. I.D.: 0398084ABCompany Representative: Robert SaeveePermit Name: Incinerator #2 Permit #: 99110103Date/Time Malfunction Began: 10/4/03 - 9:29pm Source #: _____Date/Time Malfunction Ended: 10/04/03 - 9:38pmDescription of Malfunction. The emergency stack opened due to the id fan pressure switch being tripped. All charging to the unit stopped at this time.Corrective Action. Maintenance crew adjusted the the pressure switch and restarted the scrubber system, verifying for normal operation. Charging to the unit restarted.Letter to Follow? Yes AMM No Estimated EmissionsActual Tons/hr

cc DAPC Central File

Allowable Tons/hrExcess Tons/hr



Illinois Environmental Protection Agency

2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROLField Operations SectionMALFUNCTION NOTIFICATIONDate Received: October 6, 2003 Region: 3

Time Received: _____ Received By: _____

IEPA/DAPC Personnel Receiving: Mr. Stoeckzum Phone: _____IEPA/DAPC Personnel Receiving: Mr. Stoeckzum Wire: _____IEPA/DAPC Personnel Receiving: Mr. Stoeckzum Other: FAKCompany Name: BFI Medical Waste, Inc. I.D.: 039808AABCompany Representative: Robert SacvezPermit Name: Incinerator # 2 Permit #: 39110103Date/Time Malfunction Began: 10/3/03 - 3:25pm Source #: _____Date/Time Malfunction Ended: 10/3/03 - 3:27pmDescription of Malfunction: The emergency dump stack opened as the result of operator checking if the demister influent pressure incidentally tripping the id pressure switch. Which resulted in the PLC believing that we broke the belts on the fan causing the emergency stack to open, the id fan never went down and scrubbing of the effluent continued. Once the pressure switch was re-engaged the stack automatically closed. No charging to the unit occurred at this time.Corrective Action: Operator was instructed on the proper procedure to check the demister pressure and explained to the operator the cause of the pass.Letter to Follow? /es 4/11 No Estimated EmissionsActual: 0 hrcc: DAPC Central File Allowable: 0 hrExcess: 0 hr



Illinois Environmental Protection Agency • 2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Paid Operations Section

MALFUNCTION NOTIFICATION

Date Received: September 22, 2003

Region: 2

Time Received: _____ Received By: _____

Phone: _____

IEPA/DAPC Personnel Receiving: Mr. Stoeckmann

Wire: _____

Other: FAX

Company Name: BFI Medical Waste, Inc.

I.D.: 039308AA3

Company Representative: Robert Sacre

Permit Name: Incinerator #2

Permit #: 99110103

Date/Time Malfunction Began: 9/21/03 - 8:31am

Source #: _____

Date/Time Malfunction Ended: 9/21/03 - 9:32am

Description of Malfunction: The emergency dump stack opened due to loss of sufficient water to the scrubber due to faulty belts on scrubber. Causing the high scrubber temperature, all charging to the unit stopped at this time.

Corrective Action: Maintenance crew replaced the belts, but in the interim the spare pump started working, so maintenance stayed with the spare pump. Maintenance crew restarted systems and verified normal operation, charging resumed to the unit.

Letter to follow? Yes XXX No Estimated Emissions

Actual: 15/hr

Allowable: 15/hr

Excess: 0/hr



Illinois Environmental Protection Agency

2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL

Field Operations Section

MALFUNCTION NOTIFICATION

Date Received: September 19, 2003 Region: 3
Time Received: _____ Received by:
Phone: _____
IEPA/DAPC Personnel Receiving: Mr. Storchum Wire: _____
Other: FAX
Company Name: SFI Medical Waste, Inc. I.D.: 039806AAE
Company Representative: Robert Saverese

Permit Name: Incinerator #2 Permit #: 99110103

Date/Time Malfunction Began: 9/18/03 - 6:12pm Source #: _____

Date/Time Malfunction Ended: 9/18/03 - 6:51pm

Description of Malfunction: The emergency dump stack opened due to high
scrubber temperatures malfunction which was the result of a blown
airline supplying quench make-up. All charging to the unit stopped
at this time.

Corrective Action: Maintenance crew repaired air line - resilled
quench, restarted all systems and verified normal operation.

Resumed charging to the unit.

Letter to EMA? Yes No Estimated Emissions

Actual Emissions
0

Allowable Emissions
0

Excess Emissions
0



Illinois Environmental Protection Agency 2200 Churchill Road, Springfield, IL 62706

DIVISION OF AIR POLLUTION CONTROL
Field Operations Section

MALFUNCTION NOTIFICATION

Date Received: SEPTEMBER 15, 2003 Region: 3
Time Received: _____ Received by: _____
Phone: _____
TEPA/DAPC Personnel Receiving: Mr. Storchum Wire: _____
Other: FAX
Company Name: BFI Medical Waste, Inc. I.D.: 039808AAE
Company Representative: Robert Sacvec

Permit Name: Incinerator #2 Permit #: 99110103

Date/Time Malfunction Began: 9/12/03-12:17pm Source #: _____

Date/Time Malfunction Ended: 9/12/03 - 2:04pm

Description of Malfunction: The emergency stack cap opened as the result of high quench tower temperature, which was caused by plugged water supply. All charging to the unit stopped at this time.

Corrective Action: The maintenance crew replaced the quench baskets, cleared plugged water supply, replaced broken airline to quench makeup solenoid, replaced quench reservoir level indicator and replaced pH probe for quench tower. All systems were restarted and were checked and verified for normal operation. Charging to the unit resumed.

Letter to Follow? Yes No Estimated Emissions

Actual: 075 hr.

Allowed: 175 hr.

Excess: 75 hr.

Table A-3
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Excess Parameter Events
Excess Parameter Report
(40 CFR 60.58c(b)(5) and Title V Operating Permit #99110103)

Process Unit Description:

HMIWI Unit #1

Reporting Period:

09/15/03 --- 03/15/04

| Date | Begin Time | End Time | Event Duration (hours) | Emission Rate Limit/Operating Parameter Limit Exceeded | Description/Reason of Exceedance | Corrective Actions Taken |
|----------|------------|----------|------------------------|--|----------------------------------|--|
| 09/18/03 | 01 39 | 02 29 | 0 83 | Low Absorber pH | Low pH in the absorber | Adjust caustic pump to raise pH in absorber |
| 09/24/03 | 18 35 | 19 28 | 0 88 | Low Venturi Recirc Rate | Low recirculation rate | Plug in adjust valve line cleared |
| 10/21/03 | 23 33 | 00 00 | 0 45 | High Flue Gas Temp | High temperature in flue gas | Adjust venturi exchanger valve to increase differential pressure |
| 11/16/03 | 03 18 | 03 28 | 0 16 | High Flue Gas Temp | High temperature in flue gas | Adjust venturi exchanger valve to increase differential pressure |
| 11/22/03 | 00 35 | 01 47 | 1 20 | High Flue Gas Temp | High temperature in flue gas | Adjust venturi exchanger valve to increase differential pressure |
| 11/22/03 | 07 20 | 08 48 | 1 46 | High Flue Gas Temp | High temperature in flue gas | Adjust venturi exchanger valve to increase differential pressure |
| 01/03/04 | 11 41 | 14 30 | 2 82 | Low Venturi DP | Low pressure in venturi | Increase fan speed to increase differential pressure |
| | | | | | | |
| | | | | | | |

Note: No waste is fed into the incinerator during the DURATION of the Excess Parameter. These are times that the Data Acquisition System locks us out until the parameter is within normal operating range from our stack test operating parameters. The stack cap is closed during this time.

Table A-4
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Excess Parameter Events
Excess Parameter Report
(40 CFR 60.58c(b)(5) and Title V Operating Permit #99110103)

Process Unit Description:

HMIWI Unit #2

Reporting Period:

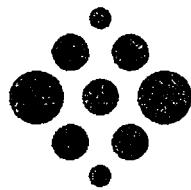
09/15/03 --- 03/15/04

| Date | Begin Time | End Time | Event Duration (hours) | Emission Rate Limit/Operating Parameter Limit Exceeded | Description/Reason of Exceedance | Corrective Actions Taken |
|----------|------------|----------|------------------------|--|--|--|
| 09/20/03 | 05 35 | 08 27 | 2.87 | Low Secondary Temp | Low temperature in the secondary chamber due to ash dragon breakdown | Increase secondary set point |
| 10/09/03 | 21 45 | 23 56 | 2.18 | Low Secondary Temp | Low temperature in the secondary chamber | Increase secondary set point |
| 10/19/03 | 10 15 | 10 19 | 0.07 | Low Venturi Recirc Rate | Low recirculation rate | Adjust venturi exchanger vavle to increase differential pressure |
| 10/19/03 | 12 24 | 13 04 | 0.67 | Low Venturi Recirc Rate | Low recirculation rate | Adjust venturi exchanger vavle to increase differential pressure |
| 10/31/03 | 03 25 | 06 29 | 3.07 | Low Secondary Temp | Low temperature in the secondary chamber due to ash dragon breakdown | Increase secondary set point |
| 11/04/03 | 02 13 | 02 39 | 0.43 | Low Venturi DP | Low pressure in venturi | Increase fan speed to increase differential pressure |
| 11/06/03 | 00 57 | 03 39 | 2.70 | Low Secondary Temp | Low temperature in the secondary chamber due to ash dragon breakdown | Increase secondary set point |
| 11/21/03 | 22 00 | 00 13 | 2.22 | Low Venturi Recirc Rate | Low recirculation rate | Adjust venturi exchanger vavle to increase differential pressure |
| 11/22/03 | 02 29 | 02 57 | 0.47 | Low Venturi Recirc Rate | Low recirculation rate | Adjust venturi exchanger vavle to increase differential pressure |
| 01/17/04 | 04 45 | 08 04 | 3.32 | Low Secondary Temp | Low temperature in the secondary chamber due to ash dragon breakdown | Increase secondary set point |
| 01/19/04 | 06 21 | 07 06 | 0.75 | Low Secondary Temp | Low temperature in the secondary chamber after start-up | Increase secondary set point |

| | | | | | | |
|----------|-------|-------|------|--------------------|---|--|
| 01/22/04 | 19 57 | 21 01 | 1 07 | Low Absorber pH | Low pH in the absorber | Switched over to other caustic tank |
| 01/22/04 | 21 02 | 22 45 | 1 72 | Low Absorber pH | Low pH in the absorber | Still in process of switching over to other caustic tank |
| 01/22/04 | 23 18 | 02 12 | 2 90 | Low Absorber pH | Low pH in the absorber | Still in process of switching over to other caustic tank |
| 01/23/04 | 02 50 | 02 55 | 0 08 | Low Secondary Temp | Low temperature in the secondary chamber, Result of low absorber pH lockout | Increase secondary set point |
| 01/28/04 | 11 56 | 12 58 | 1 03 | Low Absorber pH | Low pH in the absorber | Adjust caustic pump to raise pH in absorber |
| | | | | | | |
| | | | | | | |

Note: No waste is fed into the incinerator during the DURATION of the Excess Parameter. These are times that the Data Acquisition System locks us out until the parameter is within normal operating range from our stack test operating parameters. The stack cap is closed during this time.





Stericycle

*Experts in Infection Control
and Healthcare Compliance Services*

Tables A-1 and A-2 for previous calendar year

March 16, 2002 --- September 15, 2003

Table A-1
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Malfunction Events
40 CFR 60.56c(d)(2)and Title V Operating Permit #99110103

TOTAL MONTHLY BYPASS EVENT SPREADSHEET

| | | | |
|--|---------|-------------------------|---------|
| LOCATION | Clinton | TOTAL BYPASS HRS YTD | 7 56 |
| UNIT | Unit 1 | TOTAL OPERATING HRS YTD | 3593 00 |
| ALL TIMES MUST BE MILITARY MAXIMUM BYPASS EVENT 2 HOURS | | TOTAL % | 0 21 |

March 16, 2003---September 15, 2003

MARCH

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|--|--------------------------|------|-----------------------|
| 3/30/03 | 15 07 | 15 17 | 0 10 | 0 17 | Tripped circuit breaker for cooling pump | malfuction | HS-4 | Reset circuit breaker |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 0 17

TOTAL OP HRS FOR MONII 302 00

% BYPASS FOR MONTH 0 06

APRIL

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|--|--------------------------|------|--------------------------|
| 4/30/03 | 7 32 | 8 29 | 0 57 | 0 95 | Loss of electrical power from supplier due to severe weather | malfuction | ID 1 | Contact utility supplier |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

| | | | | | | | |
|--|--|--|------|------|--|--|--|
| | | | 0 00 | 0 00 | | | |
| | | | 0 00 | 0 00 | | | |
| | | | 0 00 | 0 00 | | | |
| | | | 0 00 | 0 00 | | | |
| | | | | | | | |

TOTAL BYPASS HRS 0 95

TOTAL OP HRS FOR MONTH 536.00

% BYPASS FOR MONTH 0 18

MAY

TOTAL BYPASS HRS 197

TOTAL OP HRS FOR MONTH 648.00

% BYPASS FOR MONTH 030

JUNE

| | |
|------------------------|--------|
| TOTAL BYPASS HRS | 0 62 |
| TOTAL OP HRS FOR MONT! | 570 00 |
| % BYPASS FOR MONTH | 0 11 |

111

TOTAL BYPASS HRS 0 96

TOTAL OP HRS FOR MONTI 629.00

% BYPASS FOR MONTH 0 15

AUGUST

| | |
|------------------------|--------|
| TOTAL BYPASS HRS | 1 09 |
| TOTAL OP HRS FOR MONTI | 654 00 |
| % BYPASS FOR MONTH | 0 17 |

SEPTEMBER

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|--------|------------|----------|----------|-----------|---|--------------------------|------|------------------------------|
| 9/4/03 | 19 14 | 21 02 | 1 48 | 1 80 | High scrubber temps Due to plugged water supply | malfunction | HS-5 | Replaced bad valve on quench |
| | 0 00 | 0 00 | 0 00 | 0 27 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

| | |
|------------------------|--------|
| TOTAL BYPASS HRS | 1 80 |
| TOTAL OP HRS FOR MONTI | 254 00 |
| % BYPASS FOR MONTH | 0 70 |

Table A-2
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Malfunction Events
40 CFR 60.56c(d)(2)and Title V Operating Permit #99110103

TOTAL MONTHLY BYPASS EVENT SPREADSHEET

| | | | |
|--|---------|-------------------------|---------|
| LOCATION | Clinton | TOTAL BYPASS HRS YTD | 12 43 |
| UNIT | Unit 2 | TOTAL OPERATING HRS YTD | 3584 00 |
| ALL TIMES MUST BE MILITARY MAXIMUM BYPASS EVENT 2 HOURS | | TOTAL % | 0.35 |

March 16, 2003---September 15, 2003

MARCH

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|--|--------------------------|------|--------------------------|
| 3/20/03 | 16 52 | 16 57 | 0 05 | 0 08 | Loss of power from utility supplier, weather | malfunction | ID-1 | Contact utility supplier |
| | | | | 0 00 | | | | |
| | | | | 0 00 | | | | |
| | | | | 0 00 | | | | |
| | | | | 0 00 | | | | |
| | | | | 0 00 | | | | |
| | | | | 0 00 | | | | |
| | | | | 0 00 | | | | |
| | | | | 0 00 | | | | |
| | | | | 0 00 | | | | |
| | | | | 0 00 | | | | |
| | | | | 0 00 | | | | |
| | | | | 0 00 | | | | |

TOTAL BYPASS HRS 0 08

TOTAL OP HRS FOR MONTH 373 00

% BYPASS FOR MONTH 0 02

APRIL

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|---|--------------------------|------|--------------------------|
| 4/4/03 | 16 43 | 16 56 | 0 13 | 0 22 | Loss of water due to belts on scrubber pump | malfunction | HS 3 | Switched to backup pump |
| 4/16/03 | 19 56 | 20 24 | 0 28 | 0 47 | Cooling tower broken pipe | malfunction | HS 8 | Replaced broken pipe |
| 4/30/03 | 7 32 | 8 36 | 1 04 | 1 07 | Loss of power from utility supplier due to severe weather | malfunction | ID-1 | Contact utility supplier |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |

| | | | | | | | |
|--|--|--|------|------|--|--|--|
| | | | 0 00 | 0 00 | | | |
| | | | 0 00 | 0 00 | | | |
| | | | 0 00 | 0 00 | | | |
| | | | 0 00 | 0 00 | | | |
| | | | 0 00 | 0 00 | | | |

TOTAL BYPASS HRS 175

TOTAL OP HRS FOR MONTI 482 00

% BYPASS FOR MONTH 0 36

MAY

TOTAL BYPASS HRS 120

TOTAL OP HRS FOR MONTI 678 00

% BYPASS FOR MONTH 0 18

JUNE

TOTAL BYPASS HRS 0 00

TOTAL OP HRS FOR MONTH 674.00

% BYPASS FOR MONTH 0 00

JULY

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|---|-------------------------|------|--------------------------|
| 7/4/03 | 23 37 | 0 54 | 1 17 | 1.28 | Blown diaphram in emergency bypass stack handle | malfunction | AC-3 | Replaced diaphram |
| 7/21/03 | 3 22 | 3 26 | 0 04 | 0.06 | Loss of power from utility supplier due to severe weather | malfunction | AC-1 | Contact utility supplier |
| 7/21/03 | 3 31 | 4 04 | 0 33 | 0.55 | Loss of power from utility supplier due to severe weather | malfunction | AC-1 | Contact utility supplier |
| 7/26/03 | 17 27 | 18 20 | 0 53 | 0.88 | Broken belts on the scrubber pumps | malfunction | HS-3 | Replacement of belts |
| 7/28/03 | 1 28 | 3 28 | 2 00 | 2.00 | Broken belts on quench pump | malfunction | SC-3 | Replacement of belt |
| | | | 0 00 | 0.00 | | | | |
| | | | 0 00 | 0.00 | | | | |
| | | | 0 00 | 0.00 | | | | |
| | | | 0 00 | 0.00 | | | | |
| | | | 0 00 | 0.00 | | | | |

TOTAL BYPASS HRS 477

TOTAL OP HRS FOR MONTI 613 00

% BYPASS FOR MONTH I 0 78

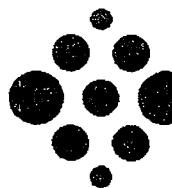
AUGUSTI

| | |
|------------------------|--------|
| TOTAL BYPASS HRS | 2 58 |
| TOTAL OP HRS FOR MONTI | 404 00 |
| % BYPASS FOR MONTH | 0 64 |

SEPTEMBER

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|---|--------------------------|------|---|
| 9/12/03 | 12 17 | 14 04 | 1 47 | 1 78 | High quench lower temperatures caused by plugged water supply | malfunction | HS-5 | Replaced the quench baskets, cleared plugged water supply, replaced broken air line, quench rosemont level indicator and pH probe |
| | 0 00 | 0 00 | 0 00 | 0 27 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

| | |
|------------------------|--------|
| TOTAL BYPASS HRS | 2 05 |
| TOTAL OP HRS FOR MONTI | 360 00 |
| % BYPASS FOR MONTH | 0 56 |



Stericycle

*Experts in Infection Control
and Healthcare Compliance Services*

Tables A-3 and A-4 for previous calendar year

March 16, 2002 --- September 15, 2003

Table A-3
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Excess Parameter Events
Excess Parameter Report
(40 CFR 60.58c(b)(5) and Title V Operating Permit #99110103)

Process Unit Description

HMIWI Unit #1

Reporting Period:

03/16/03 through 09/15/03

| Date | Begin Time | End Time | Event Duration (hours) | Emission Rate Limit/Operating Parameter Limit Exceeded | Description/Reason of Exceedance | Corrective Actions Taken |
|----------|------------|----------|------------------------|--|--|--|
| 04/15/03 | 09 57 | 10 08 | 0 15 | Low Absorber pH | Caustic pump was not turned back on after shutdown | Started caustic pump |
| 05/21/03 | 01 18 | 01 36 | 0 30 | Low Absorber pH | Low pH in the absorber | Adjust caustic pump to raise pH in absorber |
| 05/22/03 | 08 03 | 08 59 | 0 93 | Low Venturi DP | Low pressure in the venturi | Increase ID fan speed to lower flue gas temperature |
| 05/22/03 | 22 07 | 0 19 | 1 80 | Low Venturi DP | Found pressure tube clogged | Cleared debris from tube |
| 06/17/03 | 00 46 | 03 23 | 2 62 | Low Venturi DP | Sensor line for dp from id inlet clogged | Cleared debris from tube |
| 06/23/03 | 09 14 | 09 52 | 0 63 | Low Venturi Recirc Rate | Low recirculation rate | Adjust venturi exchanger valve to increase differential pressure |
| 06/25/03 | 14 36 | 15 04 | 0 47 | High Flue Gas Temperature | High temperatures in the flue gas | Increase ID fan speed to lower flue gas temperature |
| 06/29/03 | 17 44 | 18 33 | 0 82 | High Flue Gas Temperature | High temperatures in the flue gas | Increase ID fan speed to lower flue gas temperature |
| 07/09/03 | 15 15 | 15 28 | 0 22 | High Flue Gas Temperature | High temperatures in the flue gas | Increase ID fan speed to lower flue gas temperature |
| 07/14/03 | 09 02 | 09 27 | 0 42 | Low Venturi Recirc Rate | Low recirculation rate | Adjust venturi exchanger valve to increase differential pressure |
| 07/15/03 | 01 11 | 03 39 | 2 47 | Low Venturi Recirc Rate | Low recirculation rate | Adjust venturi exchanger valve to increase differential pressure |
| 07/15/03 | 19 26 | 19 29 | 0 05 | Low Venturi Recirc Rate | Low recirculation rate | Adjust venturi exchanger valve to increase differential pressure |
| 07/24/03 | 01 20 | 01 24 | 0 06 | Low Absorber pH | Low pH in the absorber | Adjust caustic pump to raise pH in absorber |
| 08/16/03 | 15 02 | 15 23 | 0 35 | Low Absorber pH | Low pH in the absorber | Adjust caustic pump to raise pH in absorber |

| | | | | | | |
|----------|-------|-------|------|---------------------------|-----------------------------------|---|
| 08/25/03 | 10 19 | 11 15 | 0 93 | High Flue Gas Temperature | High temperatures in the flue gas | Increase ID fan speed to lower flue gas temperature |
| 08/30/03 | 13 21 | 15 43 | 0 37 | Low Absorber pH | Low pH in the absorber | Adjust caustic pump to raise pH in absorber |
| | | | | | | |
| | | | | | | |

Note No waste is fed into the incinerator during the DURATION of the Excess Parameter. These are times that the Data Acquisition System locks us out until the parameter is within normal operating range from our stack test operating parameters The stack cap is closed during this time.

Table A-4
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Excess Parameter Events
Excess Parameter Report
(40 CFR 60.58c(b)(5) and Title V Operating Permit #99110103)

Process Unit Description:

HMIWI Unit #2

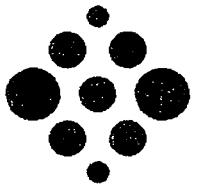
Reporting Period:

03/16/03 through 09/15/03

| Date | Begin Time | End Time | Event Duration (hours) | Emission Rate Limit/Operating Parameter Limit Exceeded | Description/Reason of Exceedance | Corrective Actions Taken |
|----------|------------|----------|------------------------|--|----------------------------------|--|
| 04/04/03 | 09 21 | 09 30 | 0 15 | Low Absorber pH | Low pH in absorber | Adjust caustic pump to raise pH in absorber |
| 04/05/03 | 00 34 | 02 41 | 2 12 | Low Venturi Recirc Rate | Low recirculation rate | Adjust venturi exchanger valve to increase differential pressure |
| 06/15/03 | 12 13 | 13 31 | 0 30 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| 06/19/03 | 06 24 | 07 35 | 0 18 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| 06/19/03 | 12 21 | 13 24 | 1 05 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| 06/21/03 | 19 58 | 20 13 | 0 25 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| 06/22/03 | 05 21 | 05 55 | 0 57 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| 06/22/03 | 10 15 | 11 47 | 1 53 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| 06/22/03 | 15 34 | 17 03 | 1 48 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| 06/22/03 | 20 41 | 21 57 | 1 27 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| 06/23/03 | 01 51 | 03 29 | 1 63 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| 06/24/03 | 17 55 | 18 38 | 0 72 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| 06/25/03 | 08 22 | 09 10 | 0 80 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |

| | | | | | | |
|----------|-------|-------|------|---------------------------|----------------------------------|--|
| 06/25/03 | 13 15 | 13 46 | 0 52 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| 06/26/03 | 03 57 | 04 22 | 0 42 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| 06/29/03 | 01 07 | 01 45 | 0 63 | Low Absorber pH | Low pH in absorber | Adjust caustic pump to raise pH in absorber |
| 07/05/03 | 03 02 | 03 38 | 0 60 | Low Absorber pH | Low pH in absorber | Adjust caustic pump to raise pH in absorber |
| 08/10/03 | 21 35 | 21 42 | 0 12 | Low Venturi DP | Low pressure in venturi | Increase fan speed to increase differential pressure |
| 08/11/03 | 15 58 | 16 18 | 0 33 | High Flue Gas Temperature | High temperature in the flue gas | Increase fan speed to lower flue gas temperature |
| | | | | | | |
| | | | | | | |

Note No waste is fed into the incinerator during the DURATION of the Excess Parameter These are times that the Data Acquisition System locks us out until the parameter is within normal operating range from our stack test operating parameters The stack cap is closed during this time



Stericycle

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Tables A-1 and A-2 for previous calendar year

June 28, 2002 --- March 15, 2003

Table A-1
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Malfunction Events
40 CFR 60.56c(d)(2)and Title V Operating Permit #99110103

TOTAL MONTHLY BYPASS EVENT SPREADSHEET

| | | | |
|------------------------------|---------|-------------------------|---------|
| LOCATION | Clinton | TOTAL BYPASS HRS YTD | 24 46 |
| UNIT | Unit 1 | TOTAL OPERATING HRS YTD | 4152 00 |
| ALL TIMES MUST BE MILITARY | | TOTAL % | 0 59 |
| MAXIMUM BYPASS EVENT 2 HOURS | | | |

March 16, 2002 --- September 15, 2002
 Stack Test June 24-27, 2002

MARCH

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|---|-------------------------|------|----------------------------|
| 3/24/02 | 22 06 | 22 24 | 0 18 | 0 30 | Loss of electrical power caused by adverse weather, ice storm | malfunction | ID-1 | Notify utility supplier |
| 3/24/02 | 23 12 | 23 18 | 0 06 | 0 10 | Loss of electrical power caused by adverse weather, ice storm | malfunction | ID-1 | Notify utility supplier |
| 3/24/02 | 23 24 | 1 24 | 2 00 | 2 00 | Loss of electrical power caused by adverse weather, ice storm | malfunction | ID-1 | Notify utility supplier |
| 3/31/02 | 23 30 | 1 30 | 2 00 | 2 00 | Plugged heat exchanger | malfunction | HS-5 | Heat exchanger was cleaned |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 4 40

TOTAL OP HRS FOR MONTH 332 00

% BYPASS FOR MONTH 1 33

APRIL

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|---|-------------------------|------|--|
| 4/2/02 | 13 30 | 13 48 | 0 18 | 0 30 | Repair to water level switch in cooling tower resulted in high absorber temps | malfunction | HS-5 | Water level was raised to correct levels |
| 4/10/02 | 11 35 | 11 37 | 0 02 | 0 03 | Testing ID fan speed to verify ID fan malfunction circuit | malfunction | ID 5 | Vibration switch verified |
| 4/17/02 | 22 06 | 22 12 | 0 06 | 0 10 | Loss of pressure in quench pump | malfunction | HS 2 | Pump found operational |

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMISSION OR | MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|--|-------------|-------------|------|-------------------------|
| 6/11/02 | 9 35 | 9 45 | 0 10 | 0 17 | Loss of electricity from utility supplier due to adverse weather | malfunction | malfunction | ID-1 | Notify utility supplier |

JUNE

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS FOR MONTH | % BYPASS FOR MONTH |
|---------|------------|----------|----------|-----------|--|--------------------|
| 5/12/02 | 8 57 | 10 22 | 1 25 | 1 42 | Shorted power source to cooling tower | 0 40 |
| 5/12/02 | 4 00 | 5 00 | 1 00 | 0 45 | Loss of electricity from utility supplier due to adverse weather | 720 00 |

MAY

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMISSION OR | MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|--|-------------|-------------|------|---|
| 5/10/02 | 7 48 | 8 15 | 0 27 | 0 45 | Loss of electricity from utility supplier due to adverse weather | malfunction | malfunction | ID-1 | Notify utility supplier |
| 5/12/02 | 4 00 | 5 00 | 1 00 | 0 45 | Loss of electricity from utility supplier due to adverse weather | malfunction | malfunction | ID-1 | Notify utility supplier |
| 5/12/02 | 8 57 | 10 22 | 1 25 | 1 42 | Shorted power source to cooling tower | malfunction | malfunction | ID-2 | Circuit breaker for cooling tower equipment is tied into breaker for ID train, these were separated |
| 5/12/02 | 4 00 | 5 00 | 1 00 | 0 45 | Loss of electricity from utility supplier due to adverse weather | malfunction | malfunction | ID-1 | Notify utility supplier |
| 5/12/02 | 8 15 | 9 35 | 1 20 | 0 45 | Loss of electricity from utility supplier due to adverse weather | malfunction | malfunction | ID-1 | Notify utility supplier |
| 5/12/02 | 9 35 | 9 45 | 0 10 | 0 17 | Loss of electricity from utility supplier due to adverse weather | malfunction | malfunction | ID-1 | Notify utility supplier |

| | | | | | | | | |
|--|--|--|------|------|--|--|--|--|
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 0 17

TOTAL OP HRS FOR MONTI 677 50

% BYPASS FOR MONTH 0 02

JULY

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|---|-------------------------|------|--------------------------------|
| 7/17/02 | 23 18 | 23 48 | 0 30 | 0 50 | Power surge from electrical supplier | malfunction | ID-1 | Notify utility supplier |
| 7/22/02 | 17 44 | 19 44 | 2 00 | 2 00 | Loss of electrical power caused by adverse weather | malfunction | ID-1 | Notify utility supplier |
| 7/23/02 | 7 37 | 9 37 | 2 00 | 2 00 | Loss of draft control due to ID fan revving up and down | malfunction | ID 3 | Replace photoelectric contacts |
| 7/23/02 | 2 42 | 4 18 | 1 36 | 1 60 | Loss of electrical power caused by adverse weather | malfunction | ID-1 | Notify utility supplier |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 6 10

TOTAL OP HRS FOR MONTI 677 00

% BYPASS FOR MONTH 0 90

AUGUST

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|--|-------------------------|------|-------------------------|
| 8/17/02 | 15 56 | 17 56 | 2 00 | 2 00 | Loss of electrical power from supplier | malfunction | ID-1 | Notify utility supplier |
| 8/18/02 | 17 16 | 18 56 | 1 40 | 1 67 | Loss of electrical power from supplier | malfunction | ID-1 | Notify utility supplier |
| 8/22/02 | 20 07 | 21 36 | 1 29 | 1 48 | Loss of electrical power caused by adverse weather | malfunction | ID 1 | Notify utility supplier |
| 8/29/02 | 16 33 | 16 44 | 0 11 | 0 18 | Loss of electrical power from supplier | malfunction | ID 1 | Notify utility supplier |
| 8/30/02 | 13 56 | 14 04 | 0 09 | 0 15 | Loss of electrical power from supplier | malfunction | ID 1 | Notify utility supplier |
| | | | 0 00 | 0 00 | | | | |

| | | | | | | | | |
|--|--|--|------|------|--|--|--|--|
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 5 48

TOTAL OP HRS FOR MONTI 744 00

% BYPASS FOR MONTH 0 74

SEPTEMBER

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|---------------------------|--------------------------|------|----------------------|
| 9/15/02 | 23 39 | 23 52 | 0 13 | 0 22 | Limit switch shorting out | malfunction | ID-2 | Replace limit switch |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 0 22

TOTAL OP HRS FOR MONTI 360 00

% BYPASS FOR MONTH 0 06

Table A-1
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Malfunction Events

TOTAL MONTHLY BYPASS EVENT SPREADSHEET

TOTAL BYPASS HRS YTD 7 86

TOTAL OPERATING HRS YTD 3652 75

ALL TIMES MUST BE MILITARY TOTAL % 0 22
MAXIMUM BYPASS EVENT 2 HOURS

September 16, 2002---March 15, 2003

SEPTEMBER

TOTAL BYPASS HRS 0 00

TOTAL OP HRS FOR MONTH 340 00

% BYPASS FOR MONTH 0 00

OCTOBER

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|----------------------------------|--------------------------|------|--------------------------|
| 3/3/03 | 22 16 | 22 25 | 0 09 | 0 15 | Unknown | malfunction | | |
| 3/10/03 | 10 52 | 11 08 | 0 16 | 0 27 | Blown fuse on cooling tower pump | malfunction | HS-4 | Replaced 110v receptacle |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 0 42

TOTAL OP HRS FOR MONTH 302 00

% BYPASS FOR MONTH 0 14

Table A-2
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Malfunction Events

40 CFR 60.56c(d)(2)and Title V Operating Permit #99110103

TOTAL MONTHLY BYPASS EVENT SPREADSHEET

| | | | |
|--|---------|-------------------------|---------|
| LOCATION | Clinton | TOTAL BYPASS HRS YTD | 4115 00 |
| UNIT | Unit 2 | TOTAL OPERATING HRS YTD | 16 06 |
| ALL TIMES MUST BE MILITARY MAXIMUM BYPASS EVENT 2 HOURS | | TOTAL % | 0 39 |

March 16, 2002 --- September 15, 2002
 Stack Test June 24-27, 2002

MARCH

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|---|--------------------------|------|-------------------------|
| 3/24/02 | 22 06 | 22 24 | 0 18 | 0 30 | Loss of electrical power caused by adverse weather, ice storm | malfunction | ID-1 | Notify utility supplier |
| 3/24/02 | 23 12 | 23 18 | 0 06 | 0 10 | Loss of electrical power caused by adverse weather, ice storm | malfunction | ID-1 | Notify utility supplier |
| 3/24/02 | 23 24 | 1 24 | 2 00 | 2 00 | Loss of electrical power caused by adverse weather, ice storm | malfunction | ID 1 | Notify utility supplier |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 2 40

TOTAL OP HRS FOR MONTI 373 00

% BYPASS FOR MONTH 0 64

APRIL

| DATE | STAR T TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|-------------|----------|----------|-----------|---|--------------------------|------|-----------------------------------|
| 4/11/03 | 20 48 | 21 18 | 0 30 | 0 50 | Replacing indicator light tripped the control power to the unit | malfunction | ID-2 | Short repaired and unit restarted |

| | | | | | | | | |
|---------|-------|-------|------|------|---------------------------------------|-------------|------|--------------------------------|
| 4/13/02 | 6 30 | 6 36 | 0 06 | 0 10 | Loss of electrical power, power surge | malfunction | ID-1 | Notify utility supplier |
| 4/23/02 | 22 12 | 22 18 | 0 06 | 0 10 | Plugged pressure line from ID fan | malfunction | HD 4 | Blockage was cleared from line |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 0 70

TOTAL OP HRS FOR MONTH 593 50

% BYPASS FOR MONTH 0 12

MAY

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|--|-------------------------|-------|--|
| 5/3/02 | 3 42 | 3 48 | 0 06 | 0 10 | Blocked suction line to quench pumps | malfunction | IIS-5 | Suction line cleaned |
| 5/3/02 | 4 00 | 6 00 | 2 00 | 2 00 | Blocked suction line to quench pumps | malfunction | IIS-5 | Suction line cleaned thoroughly after shutdown |
| 5/3/02 | 8 46 | 10 46 | 2 00 | 2 00 | High quench pump temperatures | malfunction | HS-2 | Replacement of defective valves |
| 5/10/02 | 7 48 | 8 06 | 0 18 | 0 30 | Loss of electricity from utility supplier | malfunction | ID-1 | Notify utility supplier |
| 5/28/02 | 14 24 | 14 32 | 0 08 | 0 13 | Loss of electricity from utility supplier due to adverse weather | malfunction | ID-1 | Notify utility supplier |
| 5/28/02 | 14 52 | 14 55 | 0 03 | 0 05 | Loss of electricity from utility supplier due to adverse weather | malfunction | ID 1 | Notify utility supplier |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 4 58

TOTAL OP HRS FOR MONTH 649 00

% BYPASS FOR MONTH 0 71

JUNE

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|--|-------------------------|-------|--|
| 6/11/02 | 9 35 | 9 45 | 0 10 | 0 17 | Loss of electricity from utility supplier due to adverse weather | malfunction | ID-1 | Notify utility supplier |
| 6/19/02 | 8 50 | 8 51 | 0 01 | 0 02 | Loss of negative pressure to photobels | malfunction | At. 4 | Sensing line to stack cap was replaced |
| 6/19/02 | 12 45 | 14 45 | 2 00 | 2 00 | Short to 110 volt control circuit | malfunction | ID-2 | Shorted wire was replaced |

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| | | | | | | | | |
|--|--|--|------|------|--|--|--|--|
| | | | 0 00 | 0 00 | | | | |
|--|--|--|------|------|--|--|--|--|

TOTAL BYPASS HRS 4 20

TOTAL OP HRS FOR MONTH 744 00

% BYPASS FOR MONTH 0 56

SEPTEMBER

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|------|------------|----------|----------|-----------|--------------------------|--------------------------|------|-------------------|
| None | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |
| | | | | 0 00 | 0 00 | | | |

TOTAL BYPASS HRS 0 00

TOTAL OP HRS FOR MONTH 353 00

% BYPASS FOR MONTH 0 00

Table A-2
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Malfunction Events

TOTAL MONTHLY BYPASS EVENT SPREADSHEET

| | |
|-------------------------|---------|
| TOTAL BYPASS HRS YTD | 2 94 |
| TOTAL OPERATING HRS YTD | 3638 50 |

ALL TIMES MUST BE MILITARY TOTAL %
MAXIMUM BYPASS EVENT 2 HOURS 0 08

September 16, 2002----March 15,2003

SEPTEMBER

TOTAL BYPASS HRS 0.00

TOTAL OP HRS FOR MONTI 296.00

% BYPASS FOR MONTH

OCTOBER

% BYPASS FOR MONTH

0 03

JANUARY

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|-------------------------------------|--------------------------|------|--------------------------|
| 1/23/03 | 3 29 | 5 07 | 1 38 | 1 63 | Loss of power from utility supplier | malfunction | ID-1 | Contact utility supplier |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 1 63

TOTAL OP HRS FOR MONTI 558 00

% BYPASS FOR MONTH 0 29

FEBRUARY

| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|------|------------|----------|----------|-----------|--------------------------|--------------------------|------|-------------------|
| None | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 0 00

TOTAL OP HRS FOR MONTI 506 00

% BYPASS FOR MONTH 0 00

MARCH

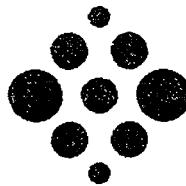
| DATE | START TIME | END TIME | DURATION | TOTAL HRS | BYPASS EVENT DESCRIPTION | EMMISSION OR MALFUNCTION | CODE | CORRECTIVE ACTION |
|---------|------------|----------|----------|-----------|--|--------------------------|------|-------------------|
| 3/14/03 | 21 25 | 21 26 | 0 01 | 0 02 | Operator accidentally hit bypass valve | Emission | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |
| | | | 0 00 | 0 00 | | | | |

TOTAL BYPASS HRS 0 02

TOTAL OP HRS FOR MONTH 360 00

% BYPASS FOR MONTH 0 01





Stericycle

*Experts in Infection Control
and Healthcare Compliance Services*

Tables A-3 and A-4 for previous calendar year

June 28, 2002 --- March 15, 2003

Table A-3
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Excess Parameter Events
Excess Parameter Report
(40 CFR 60.58c(b)(5) and Title V Operating Permit #99110103)

Process Unit Description:

HMIWI Unit #1

Reporting Period:

6/28/02 Through 9/15/02

| Date | Begin Time | End Time | Event Duration (hours) | Emission Rate Limit/Operating Parameter Limit Exceeded | Description/Reason of Exceedance | Corrective Actions Taken |
|----------|------------|----------|---------------------------|---|-------------------------------------|--------------------------|
| 09/02/02 | 13 28 | 15 24 | 1 93 | High Flue Gas Temp | High temperature in flue gas | Cleaned heat exchanger |
| 09/04/02 | 05 28 | 05 37 | 0 15 | Low Absorber pH | Plugged caustic line | Cleared caustic line |
| 09/08/02 | 18 37 | 20 17 | 1 67 | High Flue Gas Temp | High temperature in flue gas | Cleaned heat exchanger |
| 09/10/02 | 14 01 | 14 42 | 0 68 | High Flue Gas Temp | High temperature in flue gas | Cleaned heat exchanger |
| | | | | | | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |

Note No waste is fed into the incinerator during the DURATION of the Excess Parameter These are times that the Data Acquisition System locks us out until the parameter is within normal operating range from our stack test operating parameters The stack cap is closed during this time.

Table A-3
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Excess Parameter Events
Excess Parameter Report
(40 CFR 60.58c(b)(5) and Title V Operating Permit #99110103)

Process Unit Description

HMIWI Unit #1

Reporting Period:

09/16/02 through 03/15/03

| Date | Begin Time | End Time | Event Duration (hours) | Emission Rate Limit/Operating Parameter Limit Exceeded | Description/Reason of Exceedance | Corrective Actions Taken |
|----------|------------|----------|------------------------|--|----------------------------------|--|
| 10/10/02 | 15 55 | 16 14 | 0 32 | Low Absorber pH | Low pH in absorber | Adjust caustic pump to raise pH in absorber |
| 10/11/02 | 13 03 | 13 33 | 0 50 | High Flue Gas Temp | High temperature in flue gas | Increase fan speed to lower flue temperature |
| 10/11/02 | 18 43 | 19 01 | 0 30 | High Flue Gas Temp | High temperature in flue gas | Adjust venturi exchanger valve to increase differential pressure |
| 10/12/02 | 1 17 | 1 41 | 0 57 | Low Venturi Recirculation Rate | Low recirculation rate | Adjust venturi exchanger valve to increase differential pressure |
| 10/12/02 | 5 27 | 5 46 | 0 32 | High Flue Gas Temp | High temperature in flue gas | Increase fan speed to lower flue temperature |
| 10/24/02 | 3 29 | 3 38 | 0 15 | Low Venturi DP | Low pressure in venturi | Increase fan speed to increase differential pressure |
| 10/25/02 | 12 25 | 12 42 | 0 28 | Low Absorber pH | Low pH in absorber | Adjust pH setpoint to increase caustic flow |
| 10/26/02 | 4 11 | 5 24 | 1 22 | Low Absorber pH | Low pH in absorber | Adjust caustic pump to raise pH in absorber |
| 11/03/02 | 10 40 | 11 22 | 0 70 | High Flue Gas Temp | High temperature in flue gas | Adjust venturi exchanger valve to increase differential pressure |
| 11/09/03 | 16 41 | 17 24 | 0 72 | Low Absorber pH | Low pH in absorber | Adjust caustic pump to raise pH in absorber |
| 01/12/03 | 1 23 | 2 04 | 0 68 | Low Venturi Recirculation Rate | Low recirculation rate | Adjust venturi flow valve to increase flow rate |
| 01/13/03 | 5 52 | 6 01 | 0 15 | High Flue Gas Temp | High temperature in flue gas | Increase fan speed to lower flue temperature |
| 01/27/03 | 12 54 | 1 23 | 0 48 | Low Venturi Recirc Rate | Low recirculation rate | Adjust venturi exchanger valve to increase differential pressure |

| | | | | | | |
|----------|-------|-------|------|--------------------|------------------------------|--|
| 02/14/03 | 4 04 | 4 39 | 0 58 | High Flue Gas Temp | High temperature in flue gas | Adjust venturi exchanger valve to increase differential pressure |
| 03/03/03 | 15 15 | 15 19 | 0 07 | High Flue Gas Temp | High temperature in flue gas | Adjust venturi exchanger valve to increase differential pressure |
| 03/13/03 | 12 47 | 1 33 | 0 77 | Low Absorber pH | Low pH in absorber | Replaced pH probe as it is giving a false reading, unable to calibrate |

Note: No waste is fed into the incinerator during the DURATION of the Excess Parameter. These are times that the Data Acquisition System locks us out until the parameter is within normal operating range from our stack test operating parameters. The stack cap is closed during this time

Table A-4
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Excess Parameter Events
Excess Parameter Report
(40 CFR 60.58c(b)(5) and Title V Operating Permit #99110103)

Process Unit Description.

HMIWI Unit #2

Reporting Period.

6/28/02 Through 9/15/02

| Date | Begin Time | End Time | Event Duration (hours) | Emission Rate Limit/Operating Parameter Limit Exceeded | Description/Reason of Exceedance | Corrective Actions Taken |
|------|------------|----------|---------------------------|---|-------------------------------------|--------------------------|
| None | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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Note No waste is fed into the incinerator during the DURATION of the Excess Parameter These are times that the Data Acquisition System locks us out until the parameter is within normal operating range from our stack test operating parameters. The stack cap is closed during this time.

Table A-4
Stericycle, Inc. - Clinton, Illinois
Semi-annual Reporting Data
Excess Parameter Events
Excess Parameter Report
(40 CFR 60.58c(b)(5) and Title V Operating Permit #99110103)

Process Unit Description.

HMIWI Unit #2

Reporting Period:

09/16/02 through 03/15/03

| Date | Begin Time | End Time | Event Duration (hours) | Emission Rate Limit/Operating Parameter Limit Exceeded | Description/Reason of Exceedance | Corrective Actions Taken |
|----------|------------|----------|------------------------|--|----------------------------------|--|
| 10/20/02 | 9 45 | 11 02 | 1 28 | Low Absorber pH | Low pH in absorber | Adjust pH setpoint to increase caustic flow |
| 10/29/02 | 3 59 | 4 35 | 0 60 | High Flue Gas Temp | High temperature in flue gas | Adjust venturi exchanger valve to increase differential pressure |
| 11/06/02 | 5 05 | 5 10 | 0 08 | High Flue Gas Temp | High temperature in flue gas | Increased draft set point to increase differential pressure |
| 12/02/02 | 11 32 | 11 45 | 0 22 | Low Absorber pH | Low pH in absorber | Adjust caustic pump to raise pH in absorber |
| 12/17/02 | 8 11 | 8 14 | 0 05 | Low Absorber pH | Low pH in absorber | Adjust caustic pump to raise pH in absorber |
| 01/13/03 | 18 56 | 19 17 | 0 35 | Low Absorber pH | Low pH in absorber | Switched to backup caustic pump |
| 01/23/03 | 2 51 | 3 12 | 0 35 | High Flue Gas Temp | High temperature in flue gas | Increased draft set point to increase differential pressure |
| 01/24/03 | 10 42 | 11 04 | 0 37 | Low Absorber pH | Low pH in absorber | Adjust pH setpoint to increase caustic flow |
| 02/20/03 | 22 39 | 23 22 | 0 72 | Low Venturi Recirculation Rate | Low recirculation rate | Adjust venturi exchanger valve to increase differential pressure |

Note No waste is fed into the incinerator during the DURATION of the Excess Parameter These are times that the Data Acquisition System locks us out until the parameter is within normal operating range from our stack test operating parameters The stack cap is closed during this time